

# ENERGY<sup>®</sup> RV

RV (SI1516-1 N2XY)  
XLPE / PVC

**energy**

RV (SI1516-1 N2XY)

## APPLICATIONS:

Power distribution systems in utilities and industrial installations, indoor & outdoor, in air, in conduit or directly buried.

Maximum rating temperature: 90 °C

Minimum working temperature: -15 °C

## CONSTRUCTION:

SI1516-1 & IEC 60502-1



### 1. CONDUCTOR:

Class 1 solid (up to 6 mm<sup>2</sup>) and class 2 stranded (from 10 mm<sup>2</sup> and up) copper conductor to IEC 60228.

### 2. INSULATION:

Cross-linked polyethylene [R], type XLPE to IEC 60502-1. Identification by colour.

### 3. SHEATH:

Polyvinyl chloride -PVC- [V], type ST2 to IEC 60502-1.

## APPROVALS:



## RATED VOLTAGE:

0,6/1 kV

## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A·km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1682110            | 1x10                             | 8,0                           | 145                    | 35                          | 84                                             | 70                                    | 3,35                               | 0,353              |
| 1682111            | 1x16                             | 8,9                           | 200                    | 35                          | 113                                            | 91                                    | 2,14                               | 0,332              |
| 1682112            | 1x25                             | 10,4                          | 300                    | 45                          | 123                                            | 97                                    | 1,39                               | 0,320              |
| 1682113            | 1x35                             | 11,4                          | 390                    | 50                          | 154                                            | 117                                   | 1,03                               | 0,306              |
| 1682114            | 1x50                             | 12,7                          | 515                    | 55                          | 188                                            | 138                                   | 0,781                              | 0,298              |
| 1682115            | 1x70                             | 14,5                          | 720                    | 60                          | 244                                            | 171                                   | 0,566                              | 0,282              |
| 1682116            | 1x95                             | 16,5                          | 980                    | 70                          | 298                                            | 203                                   | 0,429                              | 0,270              |
| 1682117            | 1x120                            | 18,1                          | 1.210                  | 75                          | 348                                            | 230                                   | 0,357                              | 0,264              |
| 1682118            | 1x150                            | 20,0                          | 1.490                  | 80                          | 401                                            | 260                                   | 0,305                              | 0,264              |
| 1682119            | 1x185                            | 22,1                          | 1.850                  | 90                          | 460                                            | 292                                   | 0,260                              | 0,260              |
| 1682120            | 1x240                            | 24,7                          | 2.390                  | 100                         | 545                                            | 337                                   | 0,217                              | 0,255              |
| 1682121            | 1x300                            | 27,5                          | 3.015                  | 140                         | -                                              | 380                                   | 0,188                              | 0,251              |
| 1682122            | 1x400                            | 30,8                          | 3.820                  | 155                         | -                                              | -                                     | 0,164                              | 0,249              |

|         |           |      |       |     |     |     |       |       |
|---------|-----------|------|-------|-----|-----|-----|-------|-------|
| 1682306 | 3x1,5     | 9,6  | 140   | 75  | 24  | 26  | 21,5  | 0,372 |
| 1682307 | 3x2,5     | 10,4 | 180   | 80  | 33  | 33  | 13,2  | 0,349 |
| 1682308 | 3x4       | 11,4 | 235   | 85  | 45  | 42  | 8,25  | 0,328 |
| 1682309 | 3x6       | 12,4 | 305   | 95  | 57  | 54  | 5,54  | 0,313 |
| 1682310 | 3x10      | 14,7 | 465   | 60  | 78  | 70  | 3,32  | 0,272 |
| 1682311 | 3x16      | 17,5 | 715   | 70  | 105 | 91  | 2,12  | 0,260 |
| 1682012 | 3x25/16   | 23,0 | 1.295 | 175 | 116 | 97  | 1,37  | 0,262 |
| 1682013 | 3x35/16   | 23,5 | 1.515 | 95  | 144 | 117 | 1,01  | 0,255 |
| 1682014 | 3x50/25   | 26,9 | 2.035 | 135 | 175 | 138 | 0,766 | 0,253 |
| 1682015 | 3x70/35   | 31,0 | 2.835 | 155 | 224 | 171 | 0,553 | 0,244 |
| 1682016 | 3x95/50   | 35,5 | 3.855 | 180 | 271 | 203 | 0,417 | 0,234 |
| 1682017 | 3x120/70  | 39,7 | 4.910 | 200 | 315 | 230 | 0,346 | 0,233 |
| 1682018 | 3x150/70  | 43,0 | 5.805 | 215 | 359 | 260 | 0,295 | 0,234 |
| 1682019 | 3x185/95  | 48,3 | 7.360 | 245 | 410 | 292 | 0,251 | 0,233 |
| 1682020 | 3x240/120 | 54,0 | 9.460 | 325 | 490 | 337 | 0,208 | 0,230 |

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A·km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1682406            | 4x1,5                            | 10,3                          | 165                    | 80                          | 21                                             | 21                                    | 21,5                               | 0,372              |
| 1682407            | 4x2,5                            | 11,2                          | 210                    | 85                          | 28                                             | 28                                    | 13,2                               | 0,349              |
| 1682408            | 4x4                              | 12,3                          | 285                    | 95                          | 38                                             | 36                                    | 8,25                               | 0,328              |
| 1682409            | 4x6                              | 13,5                          | 375                    | 105                         | 49                                             | 44                                    | 5,54                               | 0,313              |
| 1682410            | 4x10                             | 16,1                          | 570                    | 65                          | 68                                             | 59                                    | 3,32                               | 0,272              |
| 1682411            | 4x16                             | 19,1                          | 880                    | 80                          | 91                                             | 76                                    | 2,12                               | 0,260              |
| 1682412            | 4x25                             | 22,7                          | 1.315                  | 95                          | 116                                            | 97                                    | 1,37                               | 0,262              |
| 1682413            | 4x35                             | 26,2                          | 1.830                  | 200                         | 144                                            | 117                                   | 1,01                               | 0,255              |
| 1682414            | 4x50                             | 29,8                          | 2.420                  | 225                         | 175                                            | 138                                   | 0,766                              | 0,251              |
| 1682415            | 4x70                             | 34,6                          | 3.390                  | 260                         | 224                                            | 171                                   | 0,553                              | 0,244              |
| 1682416            | 4x95                             | 38,8                          | 4.485                  | 295                         | 271                                            | 203                                   | 0,418                              | 0,235              |
| 1682417            | 4x120                            | 43,7                          | 5.670                  | 330                         | 315                                            | 230                                   | 0,346                              | 0,233              |
| 1682418            | 4x150                            | 48,0                          | 6.900                  | 360                         | 359                                            | 260                                   | 0,295                              | 0,234              |
| 1682419            | 4x185                            | 53,3                          | 8.595                  | 400                         | 410                                            | 292                                   | 0,251                              | 0,234              |
| 1682420            | 4x240                            | 61,1                          | 11.285                 | 460                         | 490                                            | 337                                   | 0,208                              | 0,230              |

|         |       |      |       |     |     |    |      |       |
|---------|-------|------|-------|-----|-----|----|------|-------|
| 1682506 | 5G1,5 | 11,1 | 195   | 85  | 21  | 21 | 21,5 | 0,372 |
| 1682507 | 5G2,5 | 12,1 | 250   | 95  | 28  | 28 | 13,2 | 0,349 |
| 1682508 | 5G4   | 13,4 | 340   | 100 | 38  | 36 | 8,25 | 0,328 |
| 1682509 | 5G6   | 14,7 | 450   | 110 | 49  | 44 | 5,54 | 0,313 |
| 1682510 | 5G10  | 17,6 | 700   | 70  | 68  | 59 | 3,32 | 0,272 |
| 1682511 | 5G16  | 20,9 | 1.080 | 85  | 91  | 76 | 2,12 | 0,260 |
| 1682512 | 5G25  | 24,9 | 1.625 | 100 | 116 | 97 | 1,37 | 0,262 |

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\* Current ratings according to IEC 60364-5-52 table B.52-2

Codes for cables in coils start with 1680.

codes for cables in plywood drums start with 1681.

# ENERGY®

RV-K Unfire (SI1516-1 N2XY)

XLPE / PVC

**energy**

RV-K Unfire  
(SI1516-1 N2XY)

## APPLICATIONS:

A flexible power and control cable designed for fixed applications , indoor & outdoor, in air, in conduit or directly buried.

Manufactured with flexible conductors in order to facilitate installation.

Maximum rating temperature: +90 °C

Minimum working temperature: -15 °C

## CONSTRUCTION:

SI1516-1 & IEC 60502-1



### 1. CONDUCTOR:

Class 5 (-K) flexible copper conductors to IEC 60228. Sector-shaped for 50 mm<sup>2</sup> and higher cross-sections (Sectorflex® solution).

### 2. INSULATION:

Cross-linked polyethylene (R), type XLPE to IEC 60502-1.

### 3. SHEATH:

Polyvinyl Chloride -PVC- (V), type ST2 to IEC 60502-1.

## APPROVAL:



## RATED VOLTAGE:

600/1000 V

## PERFORMANCE STANDARDS:



FIRE RETARDANT  
IEC 60332-3



FLAME RETARDANT  
IEC 60332-1-2



FLEXIBILITY



SECTOR SHAPED  
CONDUCTOR SECTORFLEX

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A·km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1693110            | 1x10                             | 8,2                           | 140                    | 35                          | 84                                             | 70                                    | 3,484                              | 0,335              |
| 1693111            | 1x16                             | 9,2                           | 200                    | 40                          | 113                                            | 91                                    | 2,240                              | 0,313              |
| 1693112            | 1x25                             | 10,8                          | 290                    | 45                          | 123                                            | 97                                    | 1,476                              | 0,301              |
| 1693113            | 1x35                             | 11,9                          | 385                    | 50                          | 154                                            | 117                                   | 1,073                              | 0,288              |
| 1693114            | 1x50                             | 13,5                          | 525                    | 55                          | 188                                            | 138                                   | 0,773                              | 0,278              |
| 1693115            | 1x70                             | 15,6                          | 720                    | 65                          | 244                                            | 171                                   | 0,568                              | 0,267              |
| 1693116            | 1x95                             | 17,4                          | 930                    | 70                          | 298                                            | 203                                   | 0,449                              | 0,261              |
| 1693117            | 1x120                            | 19,4                          | 1.175                  | 80                          | 348                                            | 230                                   | 0,368                              | 0,255              |
| 1693118            | 1x150                            | 21,4                          | 1.450                  | 90                          | 401                                            | 260                                   | 0,311                              | 0,256              |
| 1693119            | 1x185                            | 23,3                          | 1.755                  | 95                          | 460                                            | 292                                   | 0,270                              | 0,254              |
| 1693120            | 1x240                            | 26,4                          | 2.305                  | 135                         | 545                                            | 337                                   | 0,223                              | 0,250              |
| 1693121            | 1x300                            | 30,2                          | 2.910                  | 155                         | -                                              | 380                                   | 0,193                              | 0,244              |

|         |       |      |       |     |     |     |       |       |
|---------|-------|------|-------|-----|-----|-----|-------|-------|
| 1693206 | 2x1,5 | 9,4  | 125   | 40  | 24  | 25  | 23,61 | 0,331 |
| 1693207 | 2x2,5 | 10,2 | 160   | 45  | 33  | 33  | 14,20 | 0,307 |
| 1693208 | 2x4   | 11,3 | 205   | 45  | 45  | 42  | 8,839 | 0,287 |
| 1693209 | 2x6   | 12,4 | 260   | 50  | 57  | 54  | 5,919 | 0,272 |
| 1693210 | 2x10  | 14,3 | 375   | 60  | 78  | 70  | 3,458 | 0,256 |
| 1693211 | 2x16  | 17,1 | 570   | 70  | 105 | 91  | 2,218 | 0,245 |
| 1693212 | 2x25  | 20,4 | 835   | 85  | 136 | 116 | 1,458 | 0,246 |
| 1693213 | 2x35  | 22,6 | 1.085 | 90  | 168 | 140 | 1,057 | 0,239 |
| 1693214 | 2x50  | 25,8 | 1.475 | 130 | 205 | 166 | 0,759 | 0,236 |
| 1693215 | 2x70  | 30,0 | 2.030 | 150 | 263 | 204 | 0,556 | 0,232 |
| 1693216 | 2x95  | 33,5 | 2.605 | 170 | 320 | 242 | 0,438 | 0,228 |
| 1693217 | 2x120 | 37,8 | 3.340 | 190 | 373 | 276 | 0,358 | 0,226 |
| 1693218 | 2x150 | 41,6 | 4.100 | 210 | 430 | 311 | 0,302 | 0,228 |
| 1693219 | 2x185 | 45,6 | 4.965 | 230 | 493 | 348 | 0,262 | 0,229 |
| 1693220 | 2x240 | 51,8 | 6.500 | 315 | 583 | 402 | 0,215 | 0,226 |
| 1693221 | 2x300 | 59,4 | 8.320 | 360 | -   | 455 | 0,186 | 0,223 |

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A·km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1693306            | 3x1,5                            | 9,9                           | 145                    | 40                          | 24                                             | 25                                    | 23,61                              | 0,331              |
| 1693307            | 3x2,5                            | 10,2                          | 165                    | 45                          | 33                                             | 33                                    | 14,20                              | 0,307              |
| 1693308            | 3x4                              | 11,9                          | 240                    | 50                          | 45                                             | 42                                    | 8,839                              | 0,287              |
| 1693309            | 3x6                              | 13,1                          | 315                    | 55                          | 57                                             | 54                                    | 5,919                              | 0,272              |
| 1693310            | 3x10                             | 15,2                          | 460                    | 65                          | 78                                             | 70                                    | 3,458                              | 0,256              |
| 1693311            | 3x16                             | 18,1                          | 705                    | 75                          | 105                                            | 91                                    | 2,218                              | 0,245              |
| 1693312            | 3x25                             | 21,7                          | 1.040                  | 90                          | 116                                            | 97                                    | 1,458                              | 0,246              |
| 1693313            | 3x35                             | 24,1                          | 1.370                  | 100                         | 144                                            | 117                                   | 1,057                              | 0,239              |
| 1693314            | 3x50                             | 27,5                          | 1.870                  | 140                         | 175                                            | 138                                   | 0,759                              | 0,236              |
| 1693315            | 3x70                             | 32,2                          | 2.600                  | 165                         | 224                                            | 171                                   | 0,556                              | 0,232              |
| 1693316            | 3x95                             | 35,8                          | 3.335                  | 180                         | 271                                            | 203                                   | 0,438                              | 0,228              |
| 1693317            | 3x120                            | 40,4                          | 4.275                  | 205                         | 315                                            | 230.                                  | 0,358                              | 0,226              |
| 1693318            | 3x150                            | 44,7                          | 5.285                  | 225                         | 359                                            | 260                                   | 0,302                              | 0,228              |
| 1693319            | 3x185                            | 49,0                          | 6.405                  | 245                         | 410                                            | 292                                   | 0,262                              | 0,229              |
| 1693320            | 3x240                            | 55,7                          | 8.405                  | 335                         | 490                                            | 337                                   | 0,215                              | 0,226              |
| 1693321            | 3x300                            | 63,9                          | 10.710                 | 385                         | -                                              | 380                                   | 0,186                              | 0,223              |
| 1693010            | 3x10/6                           | 16,0                          | 515                    | 65                          | 78                                             | 70                                    | 3,458                              | 0,256              |
| 1693011            | 3x16/10                          | 19,2                          | 800                    | 80                          | 105                                            | 91                                    | 2,218                              | 0,245              |
| 1693012            | 3x25/16                          | 22,8                          | 1.175                  | 95                          | 116                                            | 97                                    | 1,458                              | 0,246              |
| 1693013            | 3x35/16                          | 24,8                          | 1.480                  | 100                         | 144                                            | 117                                   | 1,057                              | 0,239              |
| 1693014            | 3x50/25                          | 28,7                          | 2.065                  | 145                         | 175                                            | 138                                   | 0,759                              | 0,236              |
| 1693015            | 3x70/35                          | 33,3                          | 2.855                  | 170                         | 224                                            | 171                                   | 0,556                              | 0,232              |
| 1693016            | 3x95 <sup>2</sup> /50            | 37,5                          | 3.735                  | 190                         | 271                                            | 203                                   | 0,438                              | 0,228              |
| 1693017            | 3x120/70                         | 42,7                          | 4.855                  | 215                         | 315                                            | 230.                                  | 0,358                              | 0,226              |
| 1693018            | 3x150/70                         | 46,2                          | 5.780                  | 235                         | 359                                            | 260                                   | 0,302                              | 0,228              |
| 1693019            | 3x185/95                         | 51,0                          | 7.100                  | 310                         | 410                                            | 292                                   | 0,262                              | 0,229              |
| 1693020            | 3x240/120                        | 57,9                          | 9.285                  | 350                         | 490                                            | 337                                   | 0,215                              | 0,226              |
| 1693021            | 3x300/150                        | 65,9                          | 11.740                 | 395                         | -                                              | 380                                   | 0,186                              | 0,223              |

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A.km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1693406            | 4x1,5                            | 10,6                          | 165                    | 45                          | 21                                             | 21                                    | 23,61                              | 0,331              |
| 1693407            | 4x2,5                            | 11,6                          | 215                    | 50                          | 28                                             | 28                                    | 14,20                              | 0,307              |
| 1693408            | 4x4                              | 12,9                          | 285                    | 55                          | 38                                             | 36                                    | 8,839                              | 0,287              |
| 1693409            | 4x6                              | 14,2                          | 375                    | 60                          | 49                                             | 44                                    | 5,919                              | 0,272              |
| 1693410            | 4x10                             | 16,5                          | 565                    | 70                          | 68                                             | 59                                    | 3,458                              | 0,256              |
| 1693411            | 4x16                             | 19,8                          | 860                    | 80                          | 91                                             | 76                                    | 2,218                              | 0,245              |
| 1693412            | 4x25                             | 23,8                          | 1.275                  | 95                          | 116                                            | 97                                    | 1,458                              | 0,246              |
| 1693413            | 4x35                             | 26,4                          | 1.695                  | 135                         | 144                                            | 117                                   | 1,057                              | 0,239              |
| 1693414            | 4x50                             | 30,5                          | 2.345                  | 155                         | 175                                            | 138                                   | 0,759                              | 0,236              |
| 1693415            | 4x70                             | 35,8                          | 3.260                  | 180                         | 224                                            | 171                                   | 0,556                              | 0,232              |
| 1693416            | 4x95                             | 39,7                          | 4.195                  | 200                         | 271                                            | 203                                   | 0,438                              | 0,228              |
| 1693417            | 4x120                            | 45,1                          | 5.390                  | 225                         | 315                                            | 230                                   | 0,358                              | 0,226              |
| 1693418            | 4x150                            | 49,6                          | 6.640                  | 250                         | 359                                            | 260                                   | 0,302                              | 0,228              |
| 1693419            | 4x185                            | 54,6                          | 8.080                  | 330                         | 410                                            | 292                                   | 0,262                              | 0,229              |
| 1693420            | 4x240                            | 62,1                          | 10.610                 | 375                         | 490                                            | 337                                   | 0,215                              | 0,226              |
| 1693421            | 4x300                            | 71,2                          | 13.490                 | 430                         | -                                              | 380                                   | 0,186                              | 0,223              |
| 1693506            | 5G1,5                            | 11,5                          | 200                    | 50                          | 21                                             | 21                                    | 23,6                               | 0,331              |
| 1693507            | 5G2,5                            | 12,6                          | 260                    | 55                          | 28                                             | 28                                    | 14,2                               | 0,307              |
| 1693508            | 5G4                              | 14,1                          | 345                    | 60                          | 38                                             | 36                                    | 8,84                               | 0,287              |
| 1693509            | 5G6                              | 15,6                          | 460                    | 65                          | 49                                             | 44                                    | 5,92                               | 0,272              |
| 1693510            | 5G10                             | 18,2                          | 675                    | 75                          | 68                                             | 59                                    | 3,46                               | 0,256              |
| 1693511            | 5G16                             | 21,3                          | 1.035                  | 90                          | 91                                             | 76                                    | 2,22                               | 0,245              |
| 1693512            | 5G25                             | 25,8                          | 1.550                  | 130                         | 116                                            | 97                                    | 1,46                               | 0,246              |
| 1693513            | 5G35                             | 28,8                          | 2.065                  | 145                         | 144                                            | 117                                   | 1,06                               | 0,239              |
| 1693514            | 5G50                             | 35,3                          | 3.090                  | 180                         | 175                                            | 138                                   | 0,759                              | 0,236              |
| 1693515            | 5G70                             | 41,4                          | 4.290                  | 210                         | 224                                            | 171                                   | 0,556                              | 0,232              |
| 1693516            | 5G95                             | 45,8                          | 5.480                  | 230                         | 271                                            | 203                                   | 0,438                              | 0,228              |
| 1693517            | 5G120                            | 51,8                          | 6.960                  | 315                         | 315                                            | 230                                   | 0,358                              | 0,226              |
| 1693518            | 5G150                            | 57,1                          | 8.605                  | 345                         | 359                                            | 260                                   | 0,302                              | 0,228              |

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation F, two loaded conductors up to 16 mm<sup>2</sup> and three loaded conductors over 16 mm<sup>2</sup> for single-core cables and method of installation E for multicore cables.

\*\* Current ratings according to IEC 60364-5-52 table B.52-2.

PHYSICAL AND ELECTRICAL  
CHARACTERISTICS:

## SECTORFLEX CONFIGURATION

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A.km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1742214            | 2x50                             | 23,7                          | 1.345                  | 95                          | 205                                            | 166                                   | 0,759                              | 0,236              |
| 1742215            | 2x70                             | 27,1                          | 1.815                  | 140                         | 263                                            | 204                                   | 0,556                              | 0,232              |
| 1742216            | 2x95                             | 30,1                          | 2.320                  | 155                         | 320                                            | 242                                   | 0,438                              | 0,228              |
| 1742217            | 2x120                            | 33,7                          | 2.920                  | 170                         | 373                                            | 276                                   | 0,358                              | 0,226              |
| 1742218            | 2x150                            | 36,9                          | 3.575                  | 185                         | 430                                            | 311                                   | 0,302                              | 0,228              |
| 1742219            | 2x185                            | 40,2                          | 4.310                  | 205                         | 793                                            | 348                                   | 0,262                              | 0,229              |
| 1742220            | 2x240                            | 45,7                          | 5.640                  | 230                         | 583                                            | 402                                   | 0,215                              | 0,226              |
| 1742221            | 2x300                            | 51,7                          | 7.115                  | 315                         | -                                              | 455                                   | 0,186                              | 0,223              |
| 1742314            | 3x50                             | 27,4                          | 1.760                  | 140                         | 175                                            | 138                                   | 0,759                              | 0,236              |
| 1742315            | 3x70                             | 31,8                          | 2.405                  | 160                         | 224                                            | 171                                   | 0,556                              | 0,232              |
| 1742316            | 3x95                             | 35,0                          | 3.065                  | 175                         | 271                                            | 203                                   | 0,438                              | 0,228              |
| 1742317            | 3x120                            | 39,2                          | 3.855                  | 200                         | 315                                            | 230                                   | 0,358                              | 0,226              |
| 1742318            | 3x150                            | 43,2                          | 4.755                  | 220                         | 359                                            | 260                                   | 0,302                              | 0,228              |
| 1742319            | 3x185                            | 47,1                          | 5.735                  | 240                         | 410                                            | 292                                   | 0,262                              | 0,229              |
| 1742320            | 3x240                            | 53,6                          | 7.510                  | 325                         | 490                                            | 337                                   | 0,215                              | 0,226              |
| 1742321            | 3x300                            | 60,7                          | 9.445                  | 365                         | -                                              | 380                                   | 0,186                              | 0,223              |
| 1742414            | 4x50                             | 30,0                          | 2.330                  | 150                         | 175                                            | 138                                   | 0,759                              | 0,236              |
| 1742415            | 4x70                             | 34,8                          | 3.175                  | 175                         | 224                                            | 171                                   | 0,556                              | 0,232              |
| 1742416            | 4x95                             | 38,4                          | 4.070                  | 195                         | 271                                            | 203                                   | 0,438                              | 0,228              |
| 1742417            | 4x120                            | 43,3                          | 5.180                  | 220                         | 315                                            | 230                                   | 0,358                              | 0,226              |
| 1742418            | 4x150                            | 47,0                          | 6.345                  | 240                         | 359                                            | 290                                   | 0,302                              | 0,228              |
| 1742419            | 4x185                            | 52,0                          | 7.725                  | 315                         | 410                                            | 292                                   | 0,262                              | 0,229              |
| 1742420            | 4x240                            | 59,1                          | 10.135                 | 355                         | 490                                            | 337                                   | 0,215                              | 0,226              |
| 1742421            | 4x300                            | 67,8                          | 12.840                 | 410                         | -                                              | 380                                   | 0,187                              | 0,226              |



# ENERGY® RV AI

RV AI (SI1516-1 NA2XY)  
XLPE/PVC

**energy**

 RV AI  
(SI1516-1 NA2XY)

## APPLICATIONS:

Power distribution systems in utilities and industrial installations, indoor & outdoor, in air, in conduit or directly buried.

Maximum rating temperature: 90 °C

Minimum working temperature: -15 °C

## CONSTRUCTION:

SI1516-1 & IEC 60502-1 & HD 603-5N

### 1. CONDUCTOR:

Class 2 stranded aluminium conductor to IEC 60228.

### 2. INSULATION:

Cross-linked polyethylene -XLPE- [R], type XLPE to IEC 60502-1. Identification by colour.

### 3. SHEATH:

Polyvinyl chloride -PVC- [V], type ST2 to IEC 60502-1.



## APPROVALS:



## RATED VOLTAGE:

0,6/1 kV

## PERFORMANCE STANDARDS:



FLAME RETARDANT  
IEC 60332-1-2

## PHYSICAL AND ELECTRICAL CHARACTERISTICS:

| General Cable Code | Cross section (mm <sup>2</sup> ) | Nominal overall diameter (mm) | Nominal weight (kg/km) | Minimum bending radius (mm) | Maximum current rating Free Air-trefoil 40°C * | Maximum current rating Buried 25°C ** | Voltage drop cos phi= 0,8 (V/A·km) | Inductance (mH/km) |
|--------------------|----------------------------------|-------------------------------|------------------------|-----------------------------|------------------------------------------------|---------------------------------------|------------------------------------|--------------------|
| 1689114            | 1x50                             | 12,7                          | 225                    | 55                          | 140                                            | 108                                   | 1,236                              | 0,298              |
| 1689115            | 1x70                             | 14,5                          | 300                    | 60                          | 180                                            | 132                                   | 0,879                              | 0,282              |
| 1689116            | 1x95                             | 16,4                          | 400                    | 70                          | 219                                            | 157                                   | 0,657                              | 0,270              |
| 1689117            | 1x120                            | 18,3                          | 490                    | 75                          | 255                                            | 179                                   | 0,536                              | 0,266              |
| 1689118            | 1x150                            | 20,1                          | 595                    | 80                          | 295                                            | 202                                   | 0,452                              | 0,265              |
| 1689119            | 1x185                            | 22,0                          | 730                    | 90                          | 338                                            | 227                                   | 0,376                              | 0,260              |
| 1689120            | 1x240                            | 25,0                          | 925                    | 100                         | 399                                            | 261                                   | 0,306                              | 0,256              |
| 1689121            | 1x300                            | 27,5                          | 1.130                  | 140                         | -                                              | 296                                   | 0,260                              | 0,252              |
| 1689122            | 1x400                            | 30,8                          | 1.455                  | 155                         | -                                              | -                                     | 0,219                              | 0,249              |
| 1689123            | 1x500                            | 35,5                          | 1.825                  | 180                         | -                                              | -                                     | 0,187                              | 0,244              |
| 1689012            | 3x25/16                          | 23,2                          | 745                    | 174                         | 92                                             | 75                                    | 2,220                              | 0,261              |
| 1689013            | 3x35/16                          | 24,7                          | 870                    | 185                         | 115                                            | 90                                    | 1,630                              | 0,255              |
| 1689014            | 3x50/25                          | 27,9                          | 1.110                  | 209                         | 140                                            | 108                                   | 1,220                              | 0,248              |
| 1689015            | 3x70/35                          | 30,7                          | 1.345                  | 155                         | 180                                            | 132                                   | 0,867                              | 0,244              |
| 1689016            | 3x95/50                          | 36,8                          | 1.975                  | 276                         | 219                                            | 157                                   | 0,645                              | 0,236              |
| 1689017            | 3x120/70                         | 41,2                          | 2.465                  | 309                         | 255                                            | 179                                   | 0,526                              | 0,232              |
| 1689018            | 3x150/70                         | 44,9                          | 2.945                  | 337                         | 295                                            | 202                                   | 0,442                              | 0,232              |
| 1689019            | 3x185/95                         | 49,5                          | 3.610                  | 371                         | 338                                            | 227                                   | 0,367                              | 0,232              |
| 1689020            | 3x240/120                        | 54,1                          | 4.205                  | 325                         | 399                                            | 261                                   | 0,297                              | 0,231              |
| 1689412            | 4x25                             | 24,2                          | 795                    | 181                         | 92                                             | 75                                    | 2,220                              | 0,261              |
| 1689414            | 4x50                             | 29,8                          | 1.255                  | 224                         | 140                                            | 108                                   | 1,220                              | 0,251              |
| 1689415            | 4x70                             | 35,0                          | 1.735                  | 263                         | 180                                            | 132                                   | 0,867                              | 0,245              |
| 1689416            | 4x95                             | 38,8                          | 2.200                  | 291                         | 219                                            | 157                                   | 0,645                              | 0,236              |
| 1689417            | 4x120                            | 42,2                          | 2.555                  | 215                         | 255                                            | 179                                   | 0,526                              | 0,235              |
| 1689418            | 4x150                            | 48,1                          | 3.355                  | 361                         | 295                                            | 202                                   | 0,442                              | 0,232              |
| 1689419            | 4x185                            | 53,5                          | 4.170                  | 402                         | 338                                            | 227                                   | 0,368                              | 0,232              |
| 1689420            | 4x240                            | 58,5                          | 4.960                  | 355                         | 399                                            | 261                                   | 0,297                              | 0,231              |

\* Current ratings according to IEC 60364-5-52 table B.52-1, method of installation E, three loaded conductors for multicore cables and method of installation F, three loaded conductors for single core cables.

\*\* Current ratings according to IEC 60364-5-52 table B.52-2, , three loaded conductors.